

* * * * * Welcome to STN International * * * * *

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|---------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>NEWS 1</u> | | Web Page URLs for STN Seminar Schedule - N. America |
| <u>NEWS 2</u> | | "Ask CAS" for self-help around the clock |
| <u>NEWS 3</u> | FEB 28 | PATDPAFULL - New display fields provide for legal status data from INPADOC |
| <u>NEWS 4</u> | FEB 28 | BABS - Current-awareness alerts (SDIs) available |
| <u>NEWS 5</u> | MAR 02 | GBFULL: New full-text patent database on STN |
| <u>NEWS 6</u> | MAR 03 | REGISTRY/ZREGISTRY - Sequence annotations enhanced |
| <u>NEWS 7</u> | MAR 03 | MEDLINE file segment of TOXCENTER reloaded |
| <u>NEWS 8</u> | MAR 22 | KOREAPAT now updated monthly; patent information enhanced |
| <u>NEWS 9</u> | MAR 22 | Original IDE display format returns to REGISTRY/ZREGISTRY |
| <u>NEWS 10</u> | MAR 22 | PATDPASPC - New patent database available |
| <u>NEWS 11</u> | MAR 22 | REGISTRY/ZREGISTRY enhanced with experimental property tags |
| <u>NEWS 12</u> | APR 04 | EPFULL enhanced with additional patent information and new fields |
| <u>NEWS 13</u> | APR 04 | EMBASE - Database reloaded and enhanced |
| <u>NEWS 14</u> | APR 18 | New CAS Information Use Policies available online |
| <u>NEWS 15</u> | APR 25 | Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAPLUS and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications. |
| <u>NEWS 16</u> | APR 28 | Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAPLUS |
| <u>NEWS 17</u> | MAY 23 | GBFULL enhanced with patent drawing images |
| <u>NEWS 18</u> | MAY 23 | REGISTRY has been enhanced with source information from CHEMCATS |
| <u>NEWS 19</u> | JUN 06 | The Analysis Edition of STN Express with Discover! (Version 8.0 for Windows) now available |
| <u>NEWS 20</u> | JUN 13 | RUSSIAPAT: New full-text patent database on STN |
| <u>NEWS 21</u> | JUN 13 | FRFULL enhanced with patent drawing images |
| <u>NEWS 22</u> | JUN 27 | MARPAT displays enhanced with expanded G-group definitions and text labels |
| <u>NEWS 23</u> | JUL 01 | MEDICONF removed from STN |
| <u>NEWS 24</u> | JUL 07 | STN Patent Forums to be held in July 2005 |
| <u>NEWS 25</u> | JUL 13 | SCISEARCH reloaded |
| <u>NEWS 26</u> | JUL 20 | Powerful new interactive analysis and visualization software, STN AnaVist, now available |
| <u>NEWS 27</u> | AUG 11 | Derwent World Patents Index(R) web-based training during August |
| <u>NEWS 28</u> | AUG 11 | STN AnaVist workshops to be held in North America |
| <u>NEWS 29</u> | AUG 30 | CA/CAPLUS - Increased access to 19th century research documents |
| <u>NEWS 30</u> | AUG 30 | CASREACT - Enhanced with displayable reaction conditions |
| <u>NEWS EXPRESS</u> | JUNE 13 | CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005 |
| <u>NEWS HOURS</u> | | STN Operating Hours Plus Help Desk Availability |
| <u>NEWS INTER</u> | | General Internet Information |
| <u>NEWS LOGIN</u> | | Welcome Banner and News Items |
| <u>NEWS PHONE</u> | | Direct Dial and Telecommunication Network Access to STN |
| <u>NEWS WWW</u> | | CAS World Wide Web Site (general information) |

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:52:54 ON 06 SEP 2005

=> file inspec

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'INSPEC' ENTERED AT 15:53:03 ON 06 SEP 2005

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COPYRIGHT 2005 (c) INSTITUTION OF ELECTRICAL ENGINEERS (IEE)

FILE LAST UPDATED: 5 SEP 2005 <20050905/UP>
FILE COVERS 1969 TO DATE.

<<< SIMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN
THE BASIC INDEX >>>

=> s nanotube cluster

6592 NANOTUBE

93315 CLUSTER

L1 2 NANOTUBE CLUSTER
(NANOTUBE (W) CLUSTER)

=> d l1 1-2

L1 ANSWER 1 OF 2 INSPEC (C) 2005 IEE on STN

Full Text

AN 2005:8494880 INSPEC DN A2005-17-6148-002; C2005-08-7320-138
TI Large-scale quantum-mechanical simulations of nanoscale devices and new materials.
AU Bernholc, J.; Nardelli, M.B.; Lu, W.; Nakhmanson, S. (Dept. of Phys., North Carolina State Univ., Raleigh, NC, USA); Meunier, V.
SO Proceedings. Users Group Conference
Los Alamitos, CA, USA: IEEE Computer Soc, 2004. p.34-8 of x+328 pp. 19 refs.
Conference: Williamsburg, VA, USA, 7-11 June 2004
Price: CCCC 0 7695 2259 9/2004/\$20.00
ISBN: 0-7695-2259-9
DT Conference Article
TC Practical; Application
CY United States
LA English

L1 ANSWER 2 OF 2 INSPEC (C) 2005 IEE on STN

Full Text

AN 2002:7423320 INSPEC DN A2002-23-7125X-001
TI Density-functional-theory calculations of charged single-walled carbon nanotubes.
AU Ji Luo; Peng, L.-M.; Xue, Z.Q.; Wu, J.L. (Dept. of Electron., Peking Univ., Beijing, China)
SO Physical Review B (Condensed Matter and Materials Physics) (15 Sept. 2002) vol.66, no.11, p.115415/1-5. 24 refs.
Doc. No.: S0163-1829(02)07135-7

Published by: APS through AIP
 Price: CCCC 0163-1829/2002/66(11)/115415(5)/\$20.00
 CODEN: PRBMDO ISSN: 0163-1829
 SICI: 0163-1829(20020915)66:11L:1:DFTC;1-0

DT Journal
 TC Theoretical
 CY United States
 LA English

=> **nanotube**

NANOTUBE IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
 For a list of commands available to you in the current file, enter
 "HELP COMMANDS" at an arrow prompt (=>).

=> **s nanotube**

L2 6592 NANOTUBE

=> **s conductive**

L3 21953 CONDUCTIVE

=> **s 12 and 13**

L4 105 L2 AND L3

=> **s trace**

L5 32396 TRACE

=> **s 14 and 15**

L6 0 L4 AND L5

=> **s substrate**

L7 177899 SUBSTRATE

=> **s 14 and 17**

L8 9 L4 AND L7

=> **d 18 1-9**

L8 ANSWER 1 OF 9 INSPEC (C) 2005 IEE on STN



AN 2004:8140681 INSPEC DN A2004-23-7970-018; B2004-11-2320-031
 TI Field emission from thick carbon **nanotube** film on Si **substrate**.
 AU Qikun Wang; Chang-Chun Zhu; Yongsheng Shi (Sch. of Electron. & Inf. Eng.,
 Xi'an Jiaotong Univ., China)
 SO Surface and Interface Analysis (May-June 2004) vol.36, no.5-6, p.478-80. 8
 refs.
 Published by: Wiley
 Price: CCCC 0142-2421/04/\$30.00
 CODEN: SIANDQ ISSN: 0142-2421
 SICI: 0142-2421(200405/06)36:5/6L:478:FEFT;1-M
 Conference: 48th International Field Emission Symposium. Lyon, France,
 8-11 July 2002
 Sponsor(s): Cameca; Club Technologie; CNRS (of France); Hamamatsu; IEEE
 Electron Devices Soc.; MECA 2000; NaWoTec
 DT Conference Article; Journal
 TC Experimental
 CY United Kingdom
 LA English

L8 ANSWER 2 OF 9 INSPEC (C) 2005 IEE on STN

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|--------------|----------|
| Full Text | Abstract |
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AN 2004:8109451 INSPEC DN B2004-10-2575-025
 TI Integrating nano carbontubes with microchannel cooler.
 AU Zhimin Mo; Anderson, J.; Liu, J. (SMIT Center & Div. of Electron.
 Production, Chalmers Univ. of Technol., Molndal, Sweden)
 SO Proceedings of the Sixth IEEE CPMT Conference on High Density Microsystem
 Design and Packaging and Component Failure Analysis (HDP '04) (IEEE Cat.
 No.04EX905)
 Piscataway, NJ, USA: IEEE, 2004. p.373-6 of 393 pp. 9 refs.
 Conference: Shanghai, China, 30 June-3 July 2004
 Price: CCCC 0-7803-8620-5/04/\$17.00
 ISBN: 0-7803-8620-5
 DT Conference Article
 TC Practical
 CY United States
 LA English

L8 ANSWER 3 OF 9 INSPEC (C) 2005 IEE on STN

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|--------------|----------|
| Full Text | Abstract |
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AN 2004:7981790 INSPEC DN A2004-14-7360T-002
 TI Synthesis and characterization of carbon **nanotube**-conducting polymer
 thin films.
 AU Ferrer-Anglada, N. (Departament de Fisica Aplicada, Univ. Politecnica de
 Catalunya, Barcelona, Spain); Kaempgen, M.; Skakalova, V.;
 Dettlaf-Weglikowska, U.; Roth, S.
 SO Diamond and Related Materials (Feb. 2004) vol.13, no.2, p.256-60. 17 refs.
 Published by: Elsevier
 Price: CCCC 0925-9635/04/\$30.00
 CODEN: DRMTE3 ISSN: 0925-9635
 SICI: 0925-9635(200402)13:2L:256:SCCN;1-J
 Conference: Carbon Materials for Active Electronics. Symposium L, E-MRS
 Spring Meeting 2003. Strasbourg, France, 10-13 June 2003
 DT Conference Article; Journal
 TC Experimental
 CY Netherlands
 LA English

L8 ANSWER 4 OF 9 INSPEC (C) 2005 IEE on STN

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| Full Text | Abstract |
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AN 2004:7954675 INSPEC DN A2004-12-8120V-006
 TI Percolation in multi-wall carbon **nanotube**-epoxy composites influence of
 processing parameters, **nanotube** aspect ratio and electric fields on the
 bulk conductivity.
 AU Sandler, J.K.W.; Windle, A.H.; Martin, C.A. (Dept. of Mater. Sci. &
 Metall., Cambridge Univ., UK); Schwarz, M.-K.; Bauhofer, W.; Schulte, K.;
 Shaffer, M.S.P.
 SO Continuous Nanophase and Nanostructured Materials Symposium (Mater. Res.
 Soc. Symposium Proceedings Vol.788)
 Editor(s): Komarneni, S.; Parker, J.C.; Watkins, J.J.
 Warrendale, PA, USA: Mater. Res. Soc, 2004. p.221-6 of xvii+662 pp. 12
 refs.
 Conference: Boston, MA, USA, 1-5 Dec 2003
 ISBN: 1-55899-726-1
 DT Conference Article
 TC Experimental

CY United States
LA English

L8 ANSWER 5 OF 9 INSPEC (C) 2005 IEE on STN

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| Full Text | References |
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AN 2004:7917669 INSPEC DN A2004-10-8115H-008; B2004-05-0520F-026
 TI Selected-area growth of carbon nanotubes by the combination of focused ion beam and chemical vapor deposition techniques.
 AU Jun Jiao; Lifeng Dong; Foxley, S.; Mosher, C.L.; Tuggle, D.W. (Dept. of Phys., Portland State Univ., OR, USA)
 SO Microscopy and Microanalysis (Dec. 2003) vol.9, no.6, p.516-21. 11 refs.
 Published by: Springer-Verlag
 CODEN: MIMIF7 ISSN: 1431-9276
 SICI: 1431-9276(200312)9:6L:516:SAGC;1-D
 DT Journal
 TC Experimental
 CY United States
 LA English

L8 ANSWER 6 OF 9 INSPEC (C) 2005 IEE on STN

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| Full Text | References |
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AN 2004:7904475 INSPEC DN B2004-04-7260-011
 TI Study to large area screen printing cathode of carbon **nanotube**.
 AU Shi Yongsheng; Zhu Changchun; Wang Qikun (Sch. of Electron. & Inf. Eng., Xi'an Jiaotong Univ., China)
 SO Journal of Xi'an Jiaotong University (Dec. 2003) vol.37, no.12, p.1304-7. 8 refs.
 Published by: Editorial Board J. of Xi'an Jiaotong Univ
 CODEN: HCTPDW ISSN: 0253-987X
 SICI: 0253-987X(200312)37:12L:1304:SLAS;1-V
 DT Journal
 TC Application; Practical
 CY China
 LA Chinese

L8 ANSWER 7 OF 9 INSPEC (C) 2005 IEE on STN

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| Full Text | References |
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AN 2004:7842628 INSPEC DN A2004-05-8120V-013; B2004-03-2320-004
 TI Large area screen-printing cathode of CNT for FED.
 AU Yong Sheng Shi; Chang-Chun Zhu; Wang Qikun; Li Xin (Sch. of Electron. & Inf. Eng., Xi'an Jiaotong Univ., China)
 SO Diamond and Related Materials (Sept. 2003) vol.12, no.9, p.1449-52. 9 refs.
 Published by: Elsevier
 Price: CCCC 0925-9635/03/\$30.00
 CODEN: DRMTE3 ISSN: 0925-9635
 SICI: 0925-9635(200309)12:9L:1449:LASP;1-N
 DT Journal
 TC Experimental
 CY Netherlands
 LA English

L8 ANSWER 8 OF 9 INSPEC (C) 2005 IEE on STN

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| Full Text | References |
|--------------|------------|

AN 2003:7799620 INSPEC DN A2004-02-8120V-006; B2004-01-0587-011
 TI Low-temperature synthesis of large-area CNx **nanotube** arrays.

AU Dali Qian; Andrews, R.; Jacques, D.; Kichambare, P. (Center for Appl.
Energy Res., Kentucky Univ., Lexington, KY, USA); Lian, G.; Dickey, E.C.
SO Journal of Nanoscience and Nanotechnology (Feb.-April 2003) vol.3, no.1-2,
p.93-7. 34 refs.
Published by: American Scientific Publishers
Price: CCCC 1533-4880/2003/01/093/005/\$17.00+.25
CODEN: JNNOAR ISSN: 1533-4880
SICI: 1533-4880(200302/04)3:1/2L.93:TSLA;1-S
DT Journal
TC Experimental
CY United States
LA English

L8 ANSWER 9 OF 9 INSPEC (C) 2005 IEE on STN

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| Full Text | Abstracts |
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AN 2001:6879093 INSPEC DN B2001-05-2230F-001
TI Field-emission device with carbon nanotubes for a flat panel display.
AU Nakayama, Y.; Akita, S. (Dept. of Phys. & Electron., Osaka Prefectural
Univ., Sakai, Japan)
SO Synthetic Metals (15 Feb. 2001) vol.117, no.1-3, p.207-10. 10 refs.
Doc. No.: S0379-6779(00)00365-9
Published by: Elsevier
Price: CCCC 0379-6779/2001/\$20.00
CODEN: SYMEDZ ISSN: 0379-6779
SICI: 0379-6779(20010215)117:1/3L.207:FEDW;1-7
Conference: 10th Molecular Electronics and Devices Symposium (ME&D'99) and
the International Workshop on Quantum Transport in Synthetic Metals
(QTSM-1). Taejon and Seoul, South Korea, 8-11 May 1999
DT Conference Article; Journal
TC Practical; Experimental
CY Switzerland
LA English

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